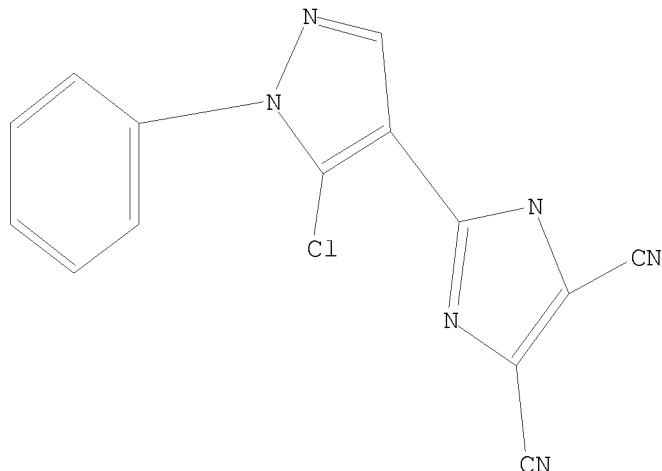


L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 10:45:26 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 33 TO ITERATE

100.0% PROCESSED 33 ITERATIONS

16 ANSWERS

SEARCH TIME: 00.00.01

L2 16 SEA SSS FUL L1

=> d l2 1-10

L2 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN

RN 886038-30-8 REGISTRY

ED Entered STN: 30 May 2006

CN Benzamide, N-[[[2,5-dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)phenyl]amino
]carbonyl]-2,6-difluoro-, mixt. with 2-[5-chloro-1-[2,6-dichloro-4-
 (trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]-1H-imidazole-4,5-
 dicarbonitrile (9CI) (CA INDEX NAME)

MF C17 H8 Cl2 F8 N2 O3 . C16 H6 Cl3 F3 N6

CI MXS

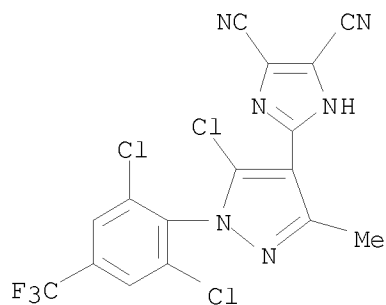
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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CRN 134183-95-2

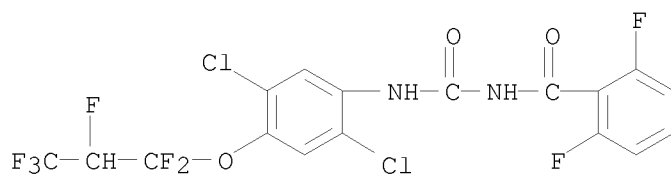
CMF C16 H6 Cl3 F3 N6



CM 2

CRN 103055-07-8

CMF C17 H8 Cl2 F8 N2 O3



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN

RN 886038-29-5 REGISTRY

ED Entered STN: 30 May 2006

CN Milbemycin B, 5-O-demethyl-28-deoxy-25-[(1E)-1,3-dimethyl-1-butenyl]-6,28-epoxy-23-(methoxyimino)-, (6R,23E,25S)-, mixt. with 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]-1H-imidazole-4,5-dicarbonitrile (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C37 H53 N O8 . C16 H6 Cl3 F3 N6

CI MXS

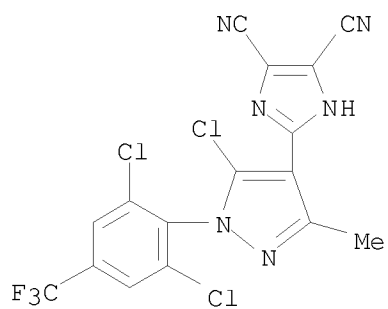
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LC STN Files: CA, CAPLUS, USPATFULL

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CRN 134183-95-2

CMF C16 H6 Cl3 F3 N6



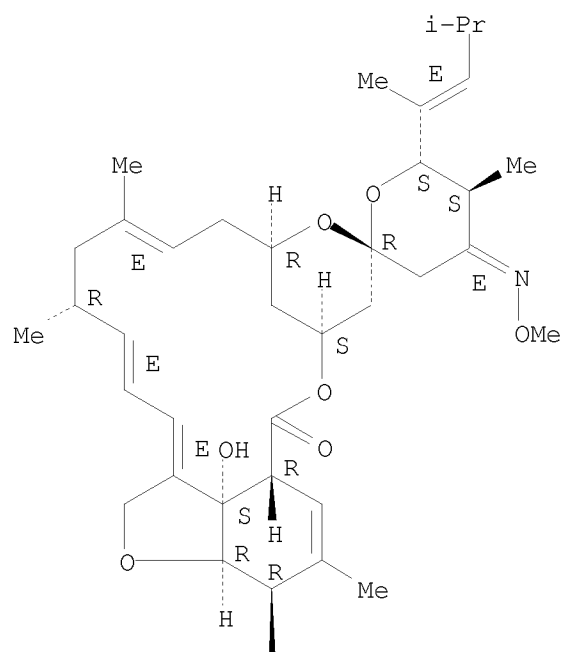
CM 2

CRN 113507-06-5

CMF C37 H53 N O8

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A



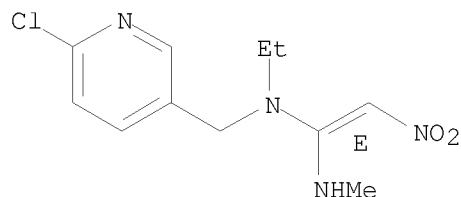
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
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 ED Entered STN: 30 May 2006
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 CI MXS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

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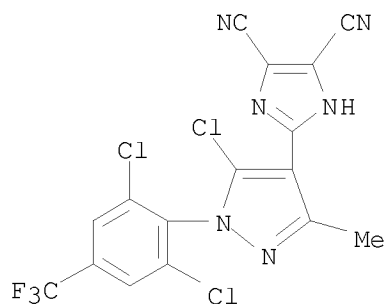
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Double bond geometry as shown.



CM 2

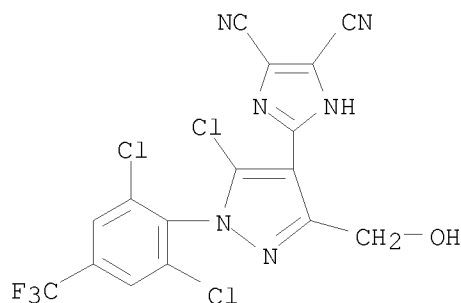
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 CMF C16 H6 Cl3 F3 N6



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 144911-03-5 REGISTRY
 ED Entered STN: 15 Dec 1992
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(hydroxymethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)

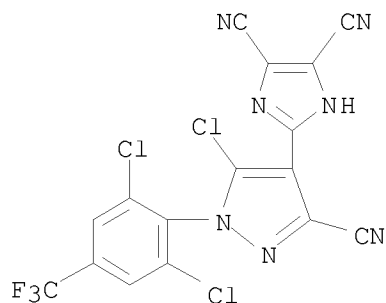
MF C16 H6 Cl3 F3 N6 O
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 144910-98-5 REGISTRY
 ED Entered STN: 15 Dec 1992
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl]- (CA INDEX NAME)
 MF C16 H3 Cl3 F3 N7
 SR CA
 LC STN Files: CA, CAPLUS

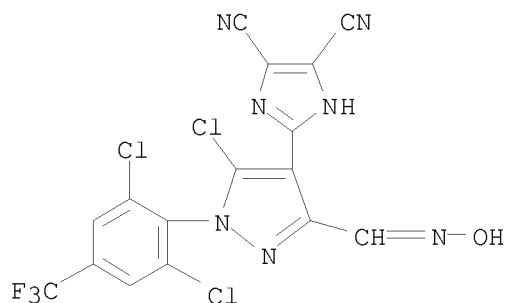


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 144910-97-4 REGISTRY
 ED Entered STN: 15 Dec 1992
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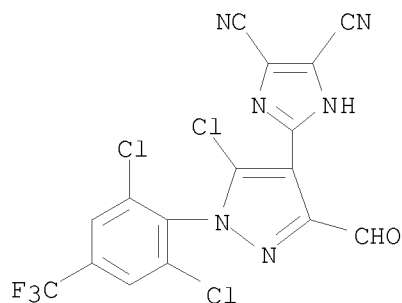
MF C16 H5 Cl3 F3 N7 O
SR CA
LC STN Files: CA, CAPLUS



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
RN 144910-96-3 REGISTRY
ED Entered STN: 15 Dec 1992
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SR CA
LC STN Files: CA, CAPLUS

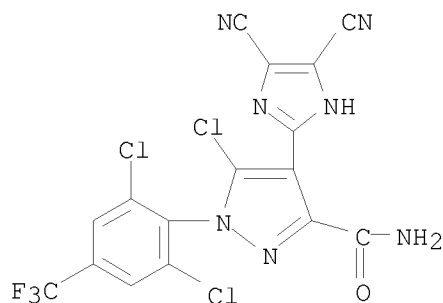


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
RN 144910-93-0 REGISTRY
ED Entered STN: 15 Dec 1992
CN 1H-Pyrazole-3-carboxamide, 5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(4,5-dicyano-1H-imidazol-2-yl)- (CA INDEX NAME)

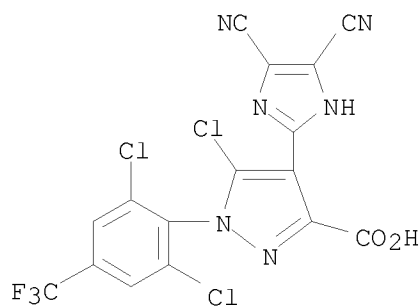
MF C16 H5 Cl3 F3 N7 O
SR CA
LC STN Files: CA, CAPLUS



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
RN 144910-92-9 REGISTRY
ED Entered STN: 15 Dec 1992
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SR CA
LC STN Files: CA, CAPLUS

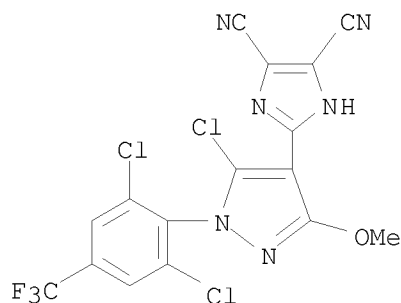


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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2008 ACS on STN
RN 144910-85-0 REGISTRY
ED Entered STN: 15 Dec 1992
CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methoxy-1H-pyrazol-4-yl]- (CA INDEX NAME)

MF C16 H6 Cl3 F3 N6 O
SR CA
LC STN Files: CA, CAPLUS



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:45:43 ON 08 SEP 2008
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FILE COVERS 1907 - 8 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 7 Sep 2008 (20080907/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

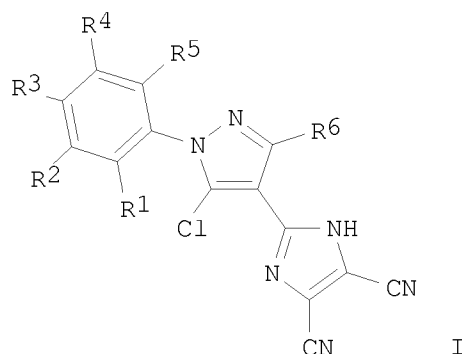
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 12
L3 9 L2


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L3      ANSWER 1 OF 9      CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:          2006:470466  CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER:           144:446593
TITLE:                     Synergistic insecticidal and acaricidal
                           ectoparasiticide compositions comprising a
                           phenylimidazolylpyrazole derivative
INVENTOR(S):               Bregante, Rafael Leaniz
PATENT ASSIGNEE(S):        Popley Pharma Ltd., Urug.
SOURCE:                    U.S. Pat. Appl. Publ., 11 pp.
                           CODEN: USXXCO
DOCUMENT TYPE:              Patent
LANGUAGE:                   English
FAMILY ACC. NUM. COUNT:    1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060105009	A1	20060518	US 2005-272153	20051110
AU 2005232262	A1	20060601	AU 2005-232262	20051109
MX 2005PA12146	A	20060516	MX 2005-PA12146	20051111
EP 1668984	A1	20060614	EP 2005-381053	20051111
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
BR 2005006071	A	20060711	BR 2005-6071	20051111
JP 2006137761	A	20060601	JP 2005-328965	20051114
PRIORITY APPLN. INFO.:			UY 2004-28617	A 20041112
OTHER SOURCE(S):	MARPAT	144:446593		
GI				



AB Synergistic insecticidal and acaricidal ectoparasitocidal compns. comprise a phenylimidazolylpyrazole derivative I (R1-5 = H, halo or XnR7; R6 = C1-6 alkyl; R7 = C1-4 alkyl; X = O, S, SO or SO2; n = 0 or 1) and a macrocyclic lactone, neonicotinoid, insect growth regulators, pyrethroid, pyrimidine derivative, organophosphorus insecticide or amitraz. The compns. are especially suitable as ectoparasitocides for cats and dogs.

IT 886038-28-4 886038-29-5 886038-30-8

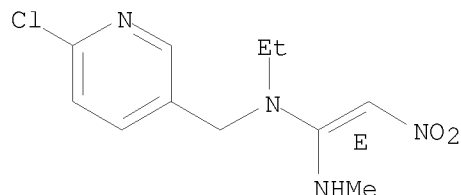
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal and acaricidal ectoparasitocidal composition)

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 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]-, mixt. with (1E)-N-[(6-chloro-3-pyridinyl)methyl]-N-ethyl-N'-methyl-2-nitro-1,1-ethenediamine (9CI) (CA INDEX NAME)

CM 1

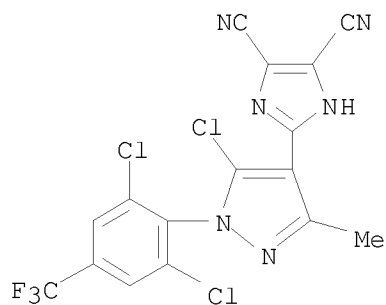
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 CMF C11 H15 Cl N4 O2

Double bond geometry as shown.



CM 2

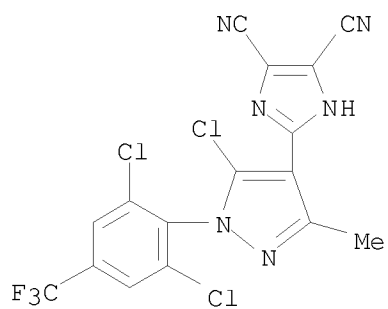
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 CMF C16 H6 Cl3 F3 N6



RN 886038-29-5 CAPLUS
 CN Milbemycin B, 5-O-demethyl-28-deoxy-25-[(1E)-1,3-dimethyl-1-butenyl]-6,28-epoxy-23-(methoxyimino)-, (6R,23E,25S)-, mixt. with 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]-1H-imidazole-4,5-dicarbonitrile (9CI) (CA INDEX NAME)

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CRN 134183-95-2
 CMF C16 H6 Cl3 F3 N6



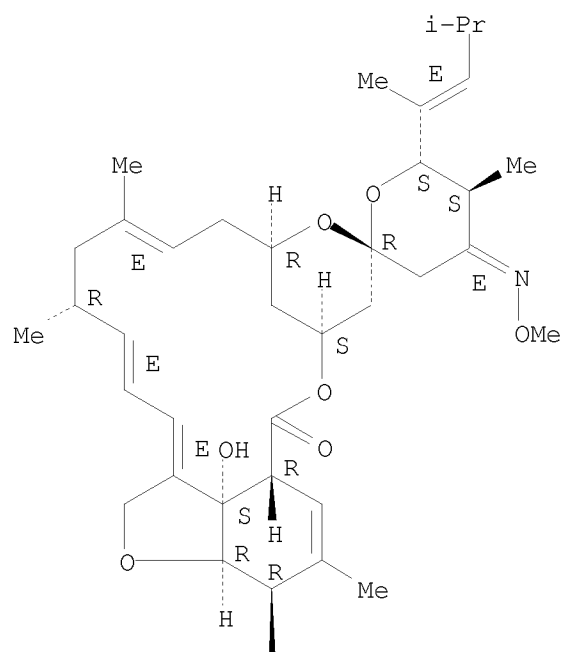
CM 2

CRN 113507-06-5

CMF C37 H53 N O8

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 2-A



RN 886038-30-8 CAPLUS

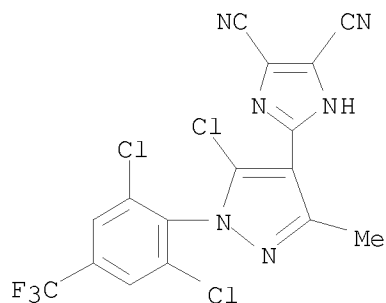
CN Benzamide, N-[[[2,5-dichloro-4-(1,1,2,3,3,3-hexafluoropropoxy)phenyl]amino

]carbonyl]-2,6-difluoro-, mixt. with 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]-1H-imidazole-4,5-dicarbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 134183-95-2

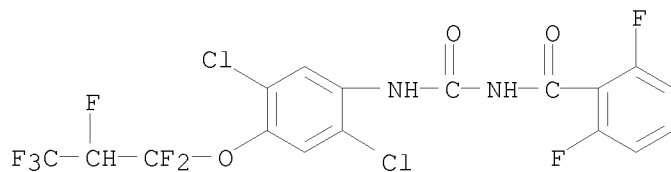
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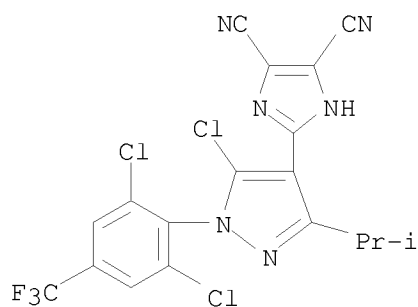
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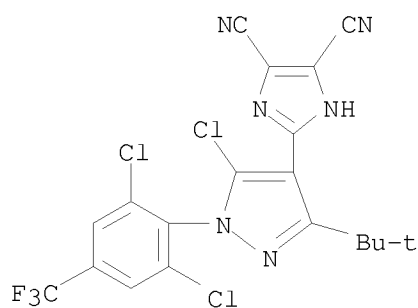
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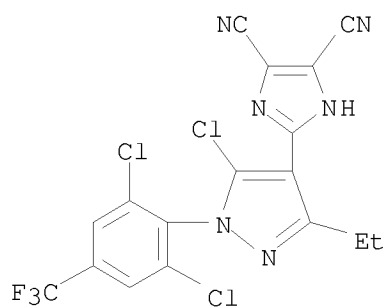
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134183-96-3D, mixts. containing
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(synergistic insecticidal and acaricidal ectoparasiticide compns.)
RN 134183-86-1 CAPLUS
CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(1-methylethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)



RN 134183-94-1 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(1,1-dimethylethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)



RN 134183-96-3 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-ethyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



L3 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:103335 CAPLUS <<LOGINID::20080908>>
 DOCUMENT NUMBER: 144:177505
 TITLE: Veterinary composition comprising an arylpyrazole and a nitroenamine with enhanced antiparasitic activity
 INVENTOR(S): Mertens, Christina; Dohrmann, Heike
 PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.

SOURCE: PCT Int. Appl., 21 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

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WO 2006010767	A1	20060202	WO 2005-EP53667	20050727
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
CA 2574335	A1	20060202	CA 2005-2574335	20050727
EP 1776116	A1	20070425	EP 2005-769652	20050727
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008508237	T	20080321	JP 2007-523082	20050727
US 20070142447	A1	20070621	US 2007-698683	20070126
PRIORITY APPLN. INFO.:			EP 2004-103616	A 20040728
			WO 2005-EP53667	W 20050727

OTHER SOURCE(S): MARPAT 144:177505

AB The invention relates to antiparasitic compns. comprising a combination of arylpyrazole compds. and nitroenamine compds. and their use in a method to control insect- and acarid- infestations on animals.

IT 134183-95-2

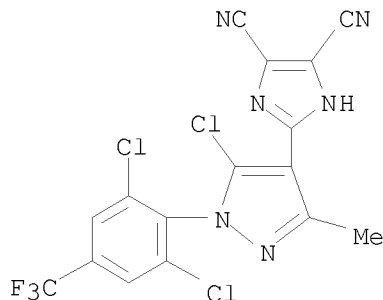
RL: BUU (Biological use, unclassified); PAC (Pharmacological activity);

THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(veterinary composition comprising an arylpyrazole and a nitroenamine with enhanced antiparasitic activity)

RN 134183-95-2 CAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:451173 CAPLUS <<LOGINID::20080908>>
 DOCUMENT NUMBER: 142:457047
 TITLE: Use of haloarylpyrazole compounds in the control of tick infestation on animals
 INVENTOR(S): Mertens, Christina; Dohrmann, Heike
 PATENT ASSIGNEE(S): Akzo Nobel N. V., Neth.
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005046656	A2	20050526	WO 2004-EP52763	20041103
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CA 2544500	A1	20050526	CA 2004-2544500	20041103
EP 1686971	A2	20060809	EP 2004-818410	20041103
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
JP 2007527868	T	20071004	JP 2006-537311	20041103
PRIORITY APPLN. INFO.:			EP 2003-78484	A 20031104
			WO 2004-EP52763	W 20041103

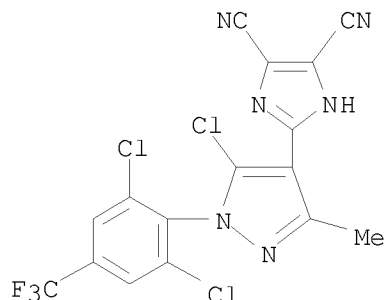
OTHER SOURCE(S): MARPAT 142:457047

AB The invention discloses the use of haloarylpyrazole compds. as tick-repellent compns., as well as a administration regimen of specific haloarylpyrazole compds. for the control of ticks on animals.

IT 134183-95-2
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (haloarylpyrazole compds. for control of tick infestation on animals)

RN 134183-95-2 CAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



L3 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:405434 CAPLUS <<LOGINID::20080908>>
DOCUMENT NUMBER: 142:451831
TITLE: Ectoparasititidal formulations of spinosyns and azole pesticides
INVENTOR(S): Mertens, Christina; Dohrmann, Heike; Rshaid, Gabrieel
Aldolfo Marcos
PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005041950	A1	20050512	WO 2004-EP52762	20041103
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2544417	A1	20050512	CA 2004-2544417	20041103
EP 1682118	A1	20060726	EP 2004-817400	20041103
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
JP 2007510635	T	20070426	JP 2006-537310	20041103
US 20070049631	A1	20070301	US 2006-577232	20060426
PRIORITY APPLN. INFO.:			EP 2003-78569	A 20031104
			WO 2004-EP52762	W 20041103

OTHER SOURCE(S): MARPAT 142:451831

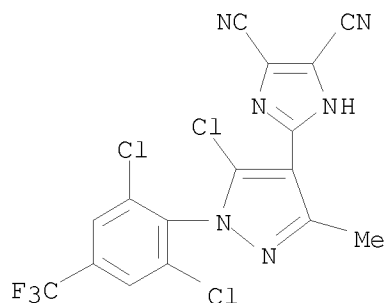
AB The present invention relates to formulations comprising a combination of an azote pesticide and spinosyns as active ingredients for the control of ectoparasites such as ticks or fleas, and to a method for the manufacture of a medicament for controlling an ectoparasite infestation by administering the active ingredients in combination, either simultaneously or sequentially.

IT 134183-95-2

RL: AGR (Agricultural use); BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (ectoparasititidal formulations of spinosyns and azole pesticides)

RN 134183-95-2 CAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:876070 CAPLUS <<LOGINID::20080908>>
 DOCUMENT NUMBER: 141:366225
 TITLE: Improved process for the synthesis of insecticidal 1-aryl-4-(imidazol-2-yl)-3-alkyl-1H-pyrazoles, in particular 5-chloro-1-aryl-4-(4,5-dicyano-1H-imidazol-2-yl)-3-alkyl-1H-pyrazole, by Vilsmeier reaction, condensation and oxidative cyclization
 INVENTOR(S): Mazzola, Alessandro; Sanso, Giovanni
 PATENT ASSIGNEE(S): Evultis, Switz.
 SOURCE: Fr. Demande, 24 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2853902	A1	20041022	FR 2003-4806	20030417
FR 2853902	B1	20050624		
AU 2004230326	A1	20041028	AU 2004-230326	20040409
CA 2522596	A1	20041028	CA 2004-2522596	20040409
WO 2004092159	A1	20041028	WO 2004-IB1513	20040409
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1618104	A1	20060125	EP 2004-726729	20040409
EP 1618104	B1	20070620		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004009411	A	20060425	BR 2004-9411	20040409
CN 1774436	A	20060517	CN 2004-80010314	20040409
CN 100376568	C	20080326		
JP 2006523677	T	20061019	JP 2006-506615	20040409
AT 365164	T	20070715	AT 2004-726729	20040409

ES 2289506	T3	20080201	ES 2004-726729	20040409
MX 2005PA11169	A	20060525	MX 2005-PA11169	20051017
US 20070155811	A1	20070705	US 2006-553399	20060913
PRIORITY APPLN. INFO.:			FR 2003-4806	A 20030417
			WO 2004-IB1513	W 20040409

OTHER SOURCE(S): CASREACT 141:366225; MARPAT 141:366225
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention is directed to an improved process of preparation of insecticidal 1-aryl-4-(imidazol-2-yl)-3-alkyl-1H-pyrazoles, in particular 5-chloro-1-aryl-4-(4,5-dicyano-1H-imidazol-2-yl)-3-alkyl-1H-pyrazole of formula (I) [wherein R1 to R5 = independently H, halo, -(X)n-R7; X = O, S, SO, SO2; n = 0-1; R7 = (un)saturated C1-C4 alkyl optionally substituted by halogens; R6 = (un)saturated C1-C6 alkyl optionally substituted by halogens]. A stepwise method involved Vilsmeier reaction of 1-aryl-3-alkyl-1H-pyrazoline-5-one (II) in DMF in the presence of POCl3/condensation of the aldehyde with diaminomaleonitrile in MeOH, followed by oxidative cyclization of the imine (III) in the presence of a hypochlorite [R1 to R6 defined as above]. The last 2 steps can be performed in one pot. The advantages include minimization of number of steps, simple purification and

high

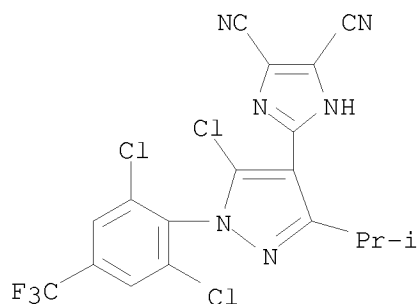
yield of the product. IV was prepared from pyrazolone I (R1 = R5 = Cl; R3 = CF3; R2 = R4 = H; R6 = Me) in 3 steps with yields of 86%, 98%, and 88% using NaOCl as oxidizing agent. Alternatively, the second and third step gave 82% yield in the one-pot version.

IT 134183-86-1P, 5-Chloro-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(4,5-dicyano-1H-imidazol-2-yl)-3-isopropyl-1H-pyrazole
134183-94-1P, 5-Chloro-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(4,5-dicyano-1H-imidazol-2-yl)-3-tert-butyl-1H-pyrazole
134183-95-2P, 5-Chloro-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(4,5-dicyano-1H-imidazol-2-yl)-3-methyl-1H-pyrazole 134183-96-3P
, 5-Chloro-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(4,5-dicyano-1H-imidazol-2-yl)-3-ethyl-1H-pyrazole

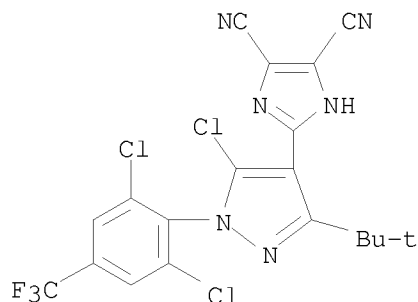
RL: IMF (Industrial manufacture); PREP (Preparation)
(pyrazole product; synthesis of arylimidazolylalkylpyrazole by Vilsmeier reaction, condensation and oxidative cyclization in the presence of hypochlorites)

RN 134183-86-1 CAPLUS

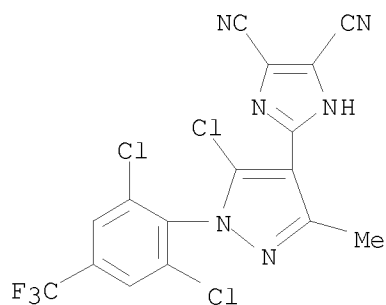
CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(1-methylethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)



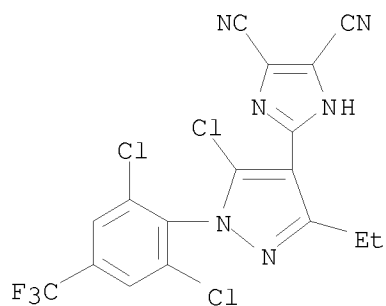
RN 134183-94-1 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(1,1-dimethylethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)



RN 134183-95-2 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



RN 134183-96-3 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-ethyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:249988 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 124:338323

ORIGINAL REFERENCE NO.: 124:62713a,62716a

TITLE: Novel azole derivatives are antagonists at the inhibitory GABA receptor on the somatic muscle cells of the parasitic nematode *Ascaris suum*

AUTHOR(S): Bascal, Z.; Holden-Dye, L.; Willis, R. J.; Smith, S. W. G.; Walker, R. J.

CORPORATE SOURCE: Department of Physiology and Pharmacology, University of Southampton, Southampton, SO9 3TU, UK

SOURCE: Parasitology (1996), 112(2), 253-9

CODEN: PARAAE; ISSN: 0031-1820

PUBLISHER: Cambridge University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The somatic muscle cells of the parasitic nematode *A. suum* possess GABA receptors that gate Cl⁻ conductances in a similar fashion to the mammalian GABAA receptor subtype. These receptors mediate muscle relaxation and are the site of action of the anthelmintic piperazine. The properties of this receptor differ from the properties of the GABA-gated Cl⁻ receptors in the mammalian host, in particular they are not as sensitive to mammalian GABA receptor antagonists such as bicuculline and picrotoxin. Using 2-electrode intracellular electrophysiol. recording techniques from *Ascaris* muscle cells, we have tested the potency of a series of azole derivs. for their ability to block the Cl⁻-dependent GABA response. The lead compound, SN606078, 2-(2,6-dichloro-4-trifluoromethylphenyl)-4-(4,5-dicyano-1H-imidazol-2-yl)-2H-1,2,3-triazole, and 4 structurally related compds. reversibly blocked the conductance increase elicited by 30 μ M GABA with IC₅₀s of <10 μ M. SN606078 (10 μ M) decreased the slope of the dose-response curve for GABA, suggesting a non-competitive mechanism of action. In 2-electrode voltage clamp expts., 10 μ M SN606078 blocked the outward current elicited by 20 μ M GABA in a voltage-dependent manner with 72% inhibition at -20 mV and 49% inhibition at -40 mV. These observations indicate that SN606078 may act as an open-channel blocker of the GABA-gated Cl⁻ channel in *A. suum*.

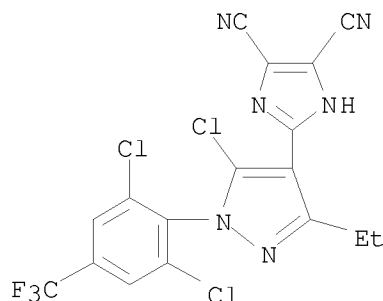
IT 134183-96-3, SN 609997

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(azole derivs. as antagonists at inhibitory GABA receptor on muscle of parasitic nematode)

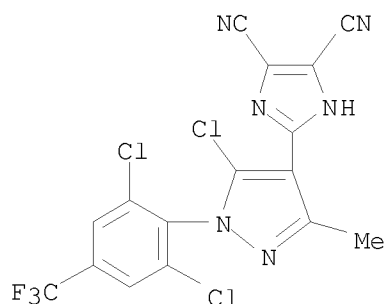
RN 134183-96-3 CAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-ethyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:144455 CAPLUS <<LOGINID::20080908>>
 DOCUMENT NUMBER: 124:196455
 ORIGINAL REFERENCE NO.: 124:36179a,36182a
 TITLE: Extended efficacy spectrum of azole pesticides.
 CORPORATE SOURCE: Hoechst Veterinaer GmbH, Germany
 SOURCE: Research Disclosure (1995), 380, P802 (No. 38028)
 CODEN: RSDSBB; ISSN: 0374-4353
 PUBLISHER: Kenneth Mason Publications Ltd.
 DOCUMENT TYPE: Journal; Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	RD 380028		19951210	RD 1995-380028	19951210
PRIORITY APPLN. INFO.:				RD 1995-380028	19951210
AB	5-Chloro-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-(4,5-dicyano-1H-imidazol-2-yl)-3-methyl-1H-pyrazole was active against many ecto- and endoparasites, such as fleas, ticks, Dirofilaria, Haematobia, Stomoxys, Glossina and myasis flies.				
IT	134183-95-2				
	RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (ecto- and endoparasiticide)				
RN	134183-95-2	CAPLUS			
CN	1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]- (CA INDEX NAME)				

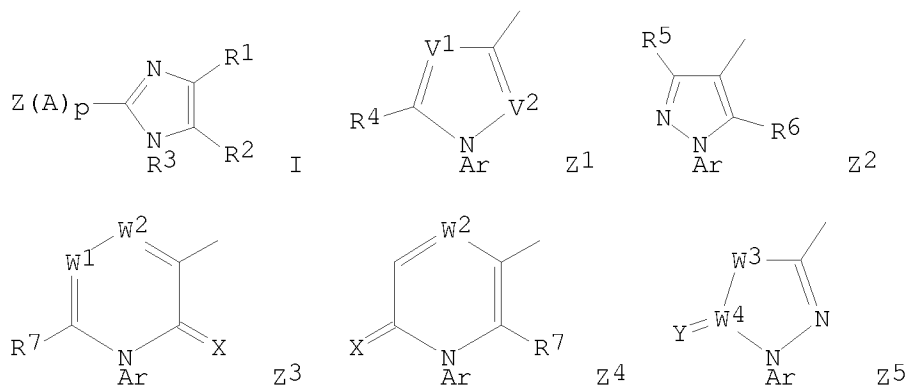


L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1993:101951 CAPLUS <<LOGINID::20080908>>
 DOCUMENT NUMBER: 118:101951
 ORIGINAL REFERENCE NO.: 118:17861a,17864a
 TITLE: Imidazole pesticides
 INVENTOR(S): Willis, Robert John; O'Mahony, Mary Josephine;
 Roberts, Bryan Glyn; Marlow, Ian David; Boddy, Ian
 Kenneth
 PATENT ASSIGNEE(S): Schering Agrochemicals Ltd., UK
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9213451	A1	19920820	WO 1992-GB233	19920210
W: AU, BG, BR, CA, CS, FI, HU, JP, KR, PL, RO, RU, SD, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
AU 9211912	A	19920907	AU 1992-11912	19920210
PRIORITY APPLN. INFO.:			GB 1991-2834	A 19910211
			GB 1991-2835	A 19910211
			GB 1991-2838	A 19910211
			GB 1991-2841	A 19910211
			GB 1991-2847	A 19910211
			GB 1991-2848	A 19910211
			GB 1991-2857	A 19910211
			GB 1991-14712	A 19910708
			GB 1991-17822	A 19910817
			WO 1992-GB233	A 19920210

OTHER SOURCE(S): MARPAT 118:101951
GI



AB Imidazoles I [Z = N-containing heterocycle Z1-Z5; Ar = aryl; V1 = N, CR9; V2 = N, CR10; W1 = N, CR8; W2 = N, CR11; W1 and W2 are not both N; W3 = O, S, NR40, CR41:CR42; X = O, S; Y = O, S, NR12; W4 = C, S (when Y = O); A = S(O)m, O, NR13; R1, R2 = H, alkyl, -CN, halo, NO2; R3 = H, alkyl, acyl, alkoxy, carbonyl, sulfamoyl; R5 = H, halo, alkyl, alkoxy, NR16R17, -CN, NO2, SO2NR16R17, CYNR16R17, CO2R18, R19S(O)m; R4, R10 = H, halo, OH, SH, -CN, NO2, alkyl, alkoxy, NR16R17, SO2NR16R17, CHO, CH2OH, CO2R18, R19S(O)m; R6 = alkyl, OH, alkoxy, -CN, NO2, R19S(O)m, 5-membered heteroaryl; R7, R8, R11 = H, halo, alkyl, alkylthio; R9 = H, halo, alkyl, formyl, alkoxy, aryl, cyano, NO2, OH, trialkylsiloxy, CYNR16R17, CO2R18, R19S(O)m; R12, R13 = H, alkyl, acyl; R16, R17 = H, alkyl, acyl, aryl; NR16R17 = N-containing ring; R18 = H, alkyl; R19 = alkyl; R40 = H, alkyl, acyl; R41, R42 = H, alkyl; m = 0, 1, 2; p = 0 or 1 when Z = Z1 or Z2 and is 0 when Z = Z3-Z5] were prepared. Thus 0.53 g 3-[(2-amino-1,2-dicyanoethenylimino)methyl]-1-(2,6-dichloro-4-trifluoromethylphenyl)-2,5-dimethylpyrrole was cyclized in the presence of 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (0.28 g) in dioxane under reflux for 6 h to give 1-(2,6-dichloro-4-trifluoromethylphenyl)-3-(4,5-dicyano-1H-imidazol-2-yl)-2,5-

dimethylpyrrole. Many examples of I were active insecticides, acaricides, and endoparasiticides in tests (sheep blow fly, blue tick, house fly, cockroach, *Trichostrongylus colubriformis*).

IT 144890-50-6P 144890-52-8P 144910-85-0P

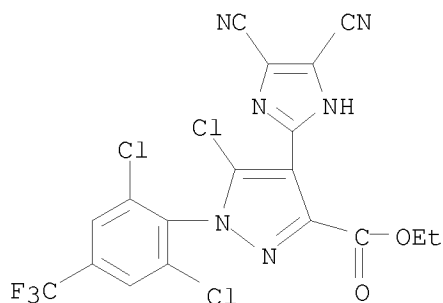
144910-92-9P 144910-93-0P 144910-96-3P

144910-97-4P 144910-98-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and pesticidal activity of)

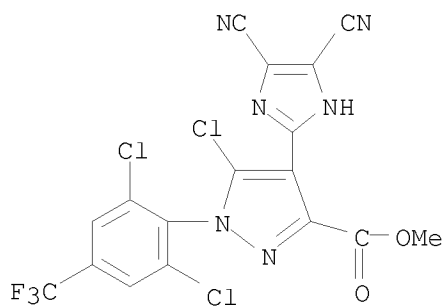
RN 144890-50-6 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(4,5-dicyano-1H-imidazol-2-yl)-, ethyl ester (CA INDEX NAME)



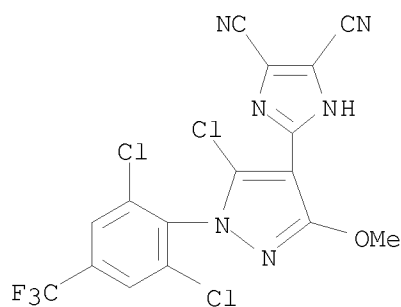
RN 144890-52-8 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(4,5-dicyano-1H-imidazol-2-yl)-, methyl ester (CA INDEX NAME)

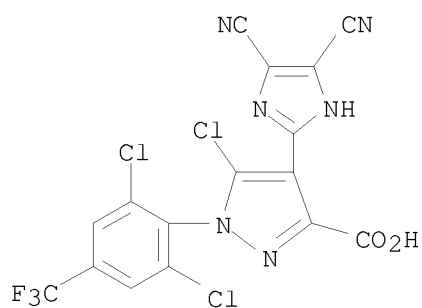


RN 144910-85-0 CAPLUS

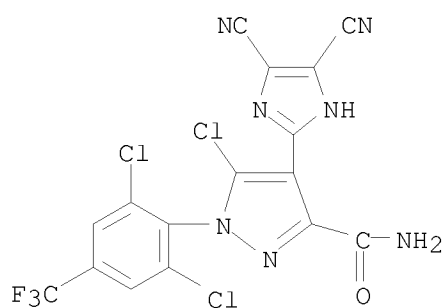
CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methoxy-1H-pyrazol-4-yl]- (CA INDEX NAME)



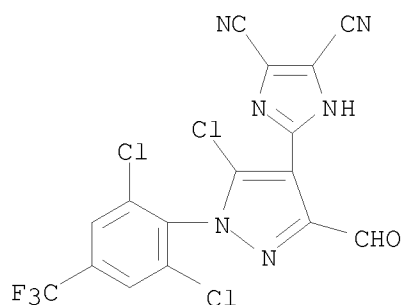
RN 144910-92-9 CAPLUS
 CN 1H-Pyrazole-3-carboxylic acid, 5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(4,5-dicyano-1H-imidazol-2-yl)- (CA INDEX NAME)



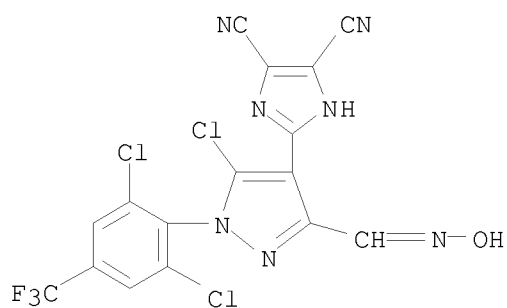
RN 144910-93-0 CAPLUS
 CN 1H-Pyrazole-3-carboxamide, 5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(4,5-dicyano-1H-imidazol-2-yl)- (CA INDEX NAME)



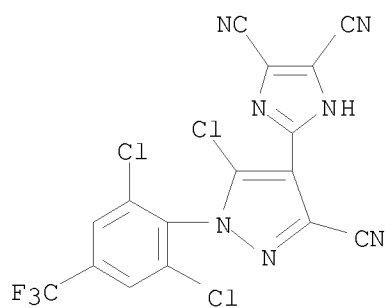
RN 144910-96-3 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-formyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



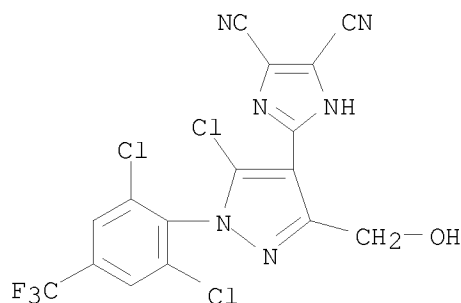
RN 144910-97-4 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-[(hydroxyimino)methyl]-1H-pyrazol-4-yl]- (CA INDEX NAME)



RN 144910-98-5 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl]- (CA INDEX NAME)



IT 144911-03-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation, oxidation, and pesticidal activity of)
 RN 144911-03-5 CAPLUS
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(hydroxymethyl)-1H-pyrazol-4-yl]- (CA INDEX NAME)



L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:408811 CAPLUS <<LOGINID::20080908>>

DOCUMENT NUMBER: 115:8811

ORIGINAL REFERENCE NO.: 115:1725a,1728a

TITLE: Aryl[(imidazolylaryl)alkyl]triazoles and aryl(imidazolylaryl)triazoles: preparation and pesticidal activity

INVENTOR(S): Willis, Robert John; O'Mahony, Mary Josephine; Roberts, Bryan Glyn

PATENT ASSIGNEE(S): Schering Agrochemicals Ltd., UK

SOURCE: Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

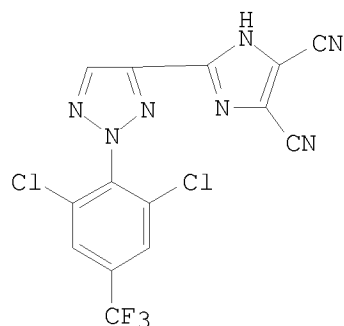
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 412849	A2	19910213	EP 1990-308857	19900810
EP 412849	A3	19920415		
EP 412849	B1	19951220		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DD 298101	A5	19920206	DD 1990-343147	19900730
IL 95307	A	19951127	IL 1990-95307	19900807
US 5109012	A	19920428	US 1990-564729	19900808
CA 2022993	A1	19910211	CA 1990-2022993	19900809
AU 9060846	A	19910214	AU 1990-60846	19900809
AU 627064	B2	19920813		
HU 54462	A2	19910328	HU 1990-4951	19900809
HU 208228	B	19930928		
JP 03083981	A	19910409	JP 1990-209367	19900809
ZA 9006289	A	19910626	ZA 1990-6289	19900809
BR 9003935	A	19910903	BR 1990-3935	19900809
FI 95379	B	19951013	FI 1990-3944	19900809
FI 95379	C	19960125		
CN 1049341	A	19910220	CN 1990-106995	19900810
CN 1025582	C	19940810		
AT 131820	T	19960115	AT 1990-308857	19900810
ES 2082828	T3	19960401	ES 1990-308857	19900810
US 5189053	A	19930223	US 1991-797365	19911125
PRIORITY APPLN. INFO.:			GB 1989-18314	A 19890810
			GB 1990-6653	A 19900324
			US 1990-564729	A3 19900808

OTHER SOURCE(S):
GI

MARPAT 115:8811



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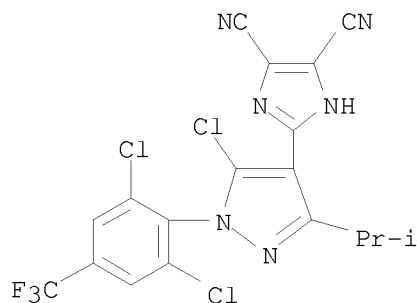
AB Pesticidal 1-aryl-4-[[(2-imidazolyl)aryl]alkyl]-1,2,3-triazoles, 2-aryl-4-[[(2-imidazolyl)aryl]alkyl]-1,2,3-triazoles, 2-aryl-4-[(2-imidazolyl)aryl]-1,2,3-triazoles, and 1-aryl-4-[(2-imidazolyl)aryl]-1,2,3-triazoles are claimed. The reaction of 2,6,4-Cl₂(F₃C)C₆H₃NHNH₂ with 2-oxopropanedial 1,3-dioxime gave the hydrazone, which was subsequently acetylated. This acetate was cyclocondensed to give 2-[(2,6-dichloro-4-(trifluoromethyl)phenyl]-2H-1,2,3-triazole-4-carboxaldehyde oxime, which was hydrolyzed to give the aldehyde. Condensation of the latter with diaminomaleonitrile gave 2-[(2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[[(2-amino-1,2-dicyanoethenyl)imino]methyl]-2H-1,2,3-triazole, which cyclized in the presence of DDQ to triazole I. I had pesticidal activity against *Lucilia sericata* (sheep blowfly), *Nilaparvata lugens* Stal (brown rice hopper), *Tetranychus urticae* Koch (two-spotted mite), and anthelmintic activity against *Heligmosomoides polygyrus*.

IT 134183-86-1P 134183-94-1P 134183-95-2P
134183-96-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and pesticidal activity of)

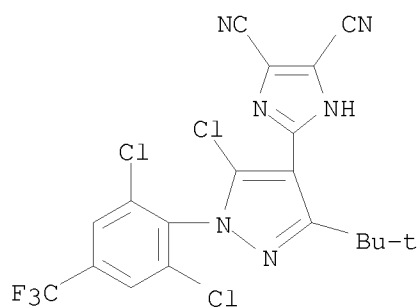
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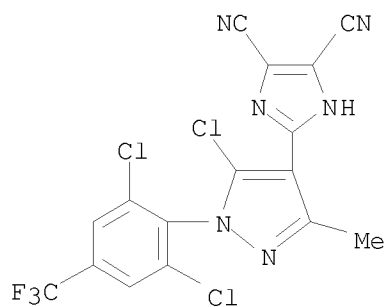
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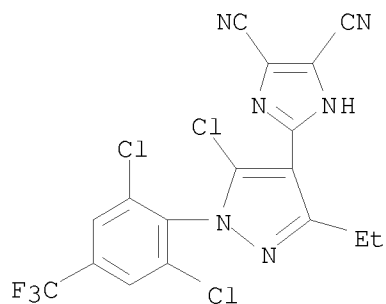
RN 134183-95-2 CAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



RN 134183-96-3 CAPLUS

CN 1H-Imidazole-4,5-dicarbonitrile, 2-[5-chloro-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-ethyl-1H-pyrazol-4-yl]- (CA INDEX NAME)



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---Logging off of STN---

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Executing the logoff script...

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